

RESULT 2

ABU37845

ID ABU37845 standard; protein; 389 AA.

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AC

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DT

15-JUN-2007 (revised)

DT

19-JUN-2003 (first entry)

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DE

Protein encoded by Prokaryotic essential gene #23372.

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KW

Antisense; prokaryotic essential gene; cell proliferation; drug design;

KW

BCND_PC; S-adenosyl methionine synthetase;

KW

S-adenosyl methionine synthetase [Neisseria meningitidis Z2491]; metK;

KW

putative S-adenosyl methionine synthetase;

KW

putative S-adenosyl methionine synthetase [Neisseria meningitidis Z2491].

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OS

Neisseria meningitidis.

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PN

WC200277183-A2.

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PD

03-OCT-2002.

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PF

21-MAR-2002; 2002WD-US009107.

XX

PR

21-MAR-2001; 2001US-00815242.

PR

06-SEP-2001; 2001US-00948993.

PR

25-OCT-2001; 2001US-0342923P.

PR

08-FEB-2002; 2002US-00072851.

PR

06-MAR-2002; 2002US-0362699P.

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PA

(ELI-T) ELITRA PHARM INC.

XX

PI

Wang L, Zamudi O C, Malone C, Haselbeck R, Ohlson KL, Zyskind JW

PI

Wahl D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;

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DR

VPI; 2003-029926/02.

DR

N-PSDB; ACAA1715.

DR

PC-NCBI; gi15793647.

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PT

New antisense nucleic acids, useful for identifying proteins or screening

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for homologous nucleic acids required for cellular proliferation to

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PT

isolate candidate molecules for rational drug discovery programs.

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PS

Claim 25; SEQ ID NO 65769; 1766pp; English.

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CC

The invention relates to an isolated nucleic acid comprising any one of

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the 6213 antisense sequences given in the specification where expression

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of the nucleic acid inhibits proliferation of a cell. Also included are:

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(1) a vector comprising a promoter operably linked to the nucleic acid

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encoding a polypeptide whose expression is inhibited by the antisense

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nucleic acid; (2) a host cell containing the vector; (3) an isolated

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polypeptide or its fragment whose expression is inhibited by the

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antisense nucleic acid; (4) an antibody capable of specifically binding

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the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular

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proliferation or the activity of a gene in an operon required for

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proliferation; (7) identifying a compound that influences the activity of

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the gene product or that has an activity against a biological pathway

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required for proliferation, or that inhibits cellular proliferation; (8)

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identifying a gene required for cellular proliferation or the biological

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pathway in which a proliferation-required gene or its gene product lies

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or a gene on which the test compound that inhibits proliferation of an

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organism acts; (9) manufacturing an antibiotic; (10) profiling a

Untitled

compound's activity; (11) a culture comprising strains in which the gene product is overexpressed or underexpressed; (12) determining the extent to which each of the strains is present in a culture or collection of strains; or (13) identifying the target of a compound that inhibits the proliferation of an organism. The antisense nucleic acids are useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs, or for screening homologous nucleic acids required for proliferation in cells other than *S. aureus*, *S. typhimurium*, *K. pneumoniae* or *P. aeruginosa*. The present sequence is encoded by one of the target prokaryotic essential genes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WPO at [ftp://wpo.int/pub/published_pct_sequences](http://wpo.int/pub/published_pct_sequences)

Revised record issued on 15-JUN-2007 : Enhanced with precomputed information from BOND.

Sequence 389 AA;

Query Match 99.2% Score 1986; DB 1; Length 389;
Best Local Similarity 99.0% Pred. No. 1.1e-188;
Matches 385; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy	1	MSEYLF	TSES	SEGH	PKVADQ	VS	DAI	LD	AI	LAQDP	KARVAA	ETLV	NTGL	CVLAGE	TTT	60
Db	1	MSEYLF	TSES	SEGH	PKVADQ	VS	DAI	LD	AI	LAQDP	KARVAA	ETLV	NTGL	CVLAGE	TTT	60
Qy	61	AQVDYI	KVARET	I	KRI	GYN	SS	EL	G	F	DANG	CA	VG	VY	DD	QSPDI
Db	61	AQVDYI	KVARET	I	KRI	GYN	SS	EL	G	F	DANG	CA	VG	VY	DD	QSPDI
Qy	121	DQGLM	FGYAC	DETPT	L	MP	FAI	Y	Y	S	H	R	L	M	Q	R
Db	121	DQGLM	FGYAC	DETPT	L	MP	FAI	Y	Y	S	H	R	L	M	Q	R
Qy	181	KVKRI	DTVVL	STQ	HD	PSI	A	Y	E	E	L	K	N	A	V	I
Db	181	KVKRI	DTVVL	STQ	HD	PSI	A	Y	E	E	L	K	N	A	V	I
Qy	241	QGD	GLTG	R	G	KI	I	V	D	T	Y	G	G	A	P	H
Db	241	QGD	GLTG	R	G	KI	I	V	D	T	Y	G	G	A	P	H
Qy	301	I	Q	V	S	Y	A	I	G	V	A	E	P	T	S	I
Db	301	I	Q	V	S	Y	A	I	G	V	A	E	P	T	S	I
Qy	361	AYG	H	F	G	R	E	E	P	T	W	E	R	T	D	K
Db	361	AYG	H	F	G	R	E	E	P	T	W	E	R	T	D	K